Applicant: Suk H. Cho et al. Attorney's Docket No.: 09143-012001

Serial No. : 09/751,047

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## Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application.

## Listing of Claims:

## 1-55. (Canceled)

- 56. (Currently amended) A liquid automatic dishwashing detergent having a pH value less than about 6.8-7.0, wherein said detergent comprises, by weight:
  - (a) from about 0.05 percent to about 5.0 percent of at least one detergent enzyme,
  - (b) from about 0.2 percent to about 5.0 percent of at least one xanthan gum,
- (c) from about 0.05 percent to about 5.0 percent of at least one low foaming nonionic surfactant,
- (d) from about 0.5 percent to about 30.0 percent of at least one non-phosphate detergent builder, and
  - (e) from about 0.01 percent to about 30.0 percent of at least one enzyme stabilizer.
- 57. (Previously presented) The detergent of claim 56, wherein said detergent is free of chlorine sources.
- 58. (Previously presented) The detergent of claim 56, wherein said detergent is free of phosphate builders.
- 59. (Previously presented) The detergent of claim 56, wherein said enzyme comprises a protease that remains greater than 90 percent active in said detergent after incubating said detergent at 30°C for one week.

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60. (Previously presented) The detergent of claim 56, wherein said enzyme comprises a protease that remains greater than 80 percent active in said detergent after incubating said detergent at 30°C for two weeks.

- 61. (Previously presented) The detergent of claim 56, wherein said enzyme comprises an amylase that remains greater than 35 percent active in said detergent after incubating said detergent at 30°C for one week.
- 62. (Previously presented) The detergent of claim 56, wherein said enzyme comprises an amylase that remains greater than 30 percent active in said detergent after incubating said detergent at 30°C for two weeks.
- 63. (Previously presented) The detergent of claim 56, wherein said surfactant comprises a surfactant selected from the group consisting of:
- (a) first condensation products, wherein said first condensation products are condensates from a first mixture containing about one mole of a straight or branched chain fatty alcohol or acid and from about four to about forty moles of ethylene oxide, wherein said alcohol or acid is saturated or unsaturated, and wherein the chain of said alcohol or acid contains from about ten to about twenty carbon atoms;
- (b) second condensation products, wherein said second condensation products are condensates from a second mixture containing about one mole of alkyl phenol and from about four to about fifty moles of ethylene oxide, wherein the alkyl chain of said alkyl phenol contains from about eight to about eighteen carbon atoms;
- (c) polyoxypropylene, polyoxyethylene condensates having the formula  $R_1O(CH_2CH_2O)_x(CH(CH_3)CH_2O)_yR_2$ , wherein  $R_1$  is H or an alkyl group having from one to four carbon atoms, wherein  $R_2$  is H or an alkyl group having from one to four carbon atoms, wherein x is an integer greater than or equal to one, wherein y is an integer greater than or equal to one, wherein the total  $C_2H_4O$  content is from about 20 percent to about 90 percent of the total weight

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of said polyoxypropylene, polyoxyethylene condensates, and wherein the molecular weight of said polyoxypropylene, polyoxyethylene condensates is from about 2000 Daltons to about 10,000 Daltons; and

- (d) capped condensates, wherein said capped condensates comprise said polyoxypropylene, polyoxyethylene condensates capped with at least one capping molecule, said capping molecule being selected from the group consisting of propylene oxide, butylene oxide, short chain alcohols, and short chain fatty acids.
- 64. (Previously presented) The detergent of claim 56, wherein said non-phosphate detergent builder is selected from the group consisting of citric acid, alkali metal salt forms of citric acid, and ammonium salt forms of citric acid.
- 65. (Previously presented) The detergent of claim 56, wherein said enzyme stabilizer is selected from the group consisting of propylene glycol, sorbitol, fructose, sucrose, glucose, short chain carboxylic acids, salt forms of short chain carboxylic acids, polyhydroxyl compounds, boric acid, soluble salt forms of boric acid, boronic acid, and soluble salt forms of boronic acid.
- 66. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans glasses such that said glasses have a grade value less than about 2.50 for spots after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.90, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.
- 67. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans flatware such that said flatware has a grade value less than about 2.50 for spots after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 2.10, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.

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68. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans white plates such that said white plates have a grade value less than about 2.50 for spots after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.70, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.

- 69. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans gold plates such that said gold plates have a grade value less than about 2.50 for spots after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.80, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.
- 70. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans glasses such that said glasses have a grade value less than about 2.50 for film after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.90, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.
- 71. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans flatware such that said flatware has a grade value less than about 2.50 for film after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.90, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.

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72. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans white plates such that said white plates have a grade value less than about 2.50 for film after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.60, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.

- 73. (Previously presented) The detergent of claim 56, wherein 100 grams of said detergent cleans gold plates such that said gold plates have a grade value less than about 2.50 for film after performing a standard wash test with 200 grams of an alkaline liquid automatic dishwashing detergent being used as a control set to a reference grade value of 1.80, wherein said alkaline liquid automatic dishwashing detergent contains phosphates and chlorine.
- 74. (Previously presented) The detergent of claim 56, wherein said pH value is from about 5.0 to about 6.5
- 75. (Previously presented) The detergent of claim 56, wherein said pH value is from about 5.0 to about 6.0.
- 76. (Previously presented) The detergent of claim 56, wherein said detergent comprises at least one pH adjusting agent such that said detergent has said pH value.
- 77. (Previously presented) The detergent of claim 56, wherein said detergent comprises at least one calcium ion source.
- 78. (Previously presented) The detergent of claim 77, wherein said calcium ion source comprises from about 0.01 percent to about 5.0 percent of said detergent by weight.